EXP.AT'19
5th experiment@
international conference

University of Madeira
Funchal, Madeira Island, Portugal
12-14 Jun, 2019

Call for Papers for the *exp.at'19* Special Track *MLAiE'19* "Machine learning applications in engineering – trends and best practice"

Experiment@International Conference 2019, (*exp.at'19*), http://expat.org.pt/expat19/

exp.at'19 is the 5th event of the conference series *exp.at'xx*. The conference will be held at the University of Madeira (Funchal, Madeira Island, Portugal) on June 12-14, 2019. It is a joint organization of University of Porto and University of Coimbra with the collaboration of University of Madeira. The conference will feature the technical support of IEEE (IEEE Industrial Electronics Society and IEEE Education Society) and the Portuguese Engineers Association.

MLAiE'19 within *exp.at'19* aims to illustrate the impact of machine learning methods on engineering, e-health and experimental sciences, mainly in online experimentations and to identify future trends of machine learning applications in these areas. Full paper submission with illustrations of real world applications and examples of good practice are welcome as well as theoretical or experimental comparisons to traditional methods of mathematical modeling used in these areas.

Topics of Interest (not limited to):

- Deep Learning and image processing
- Machine learning and control systems
- Machine learning in e-health engineering
- Machine learning and prediction of source use (electricity, water, etc.)
- Smart Sensor Systems
- Machine learning methods for edge computing
- Statistical learning
- Classical methods of machine learning (k-nearest, svm, decision trees, etc.)

- Artificial neural networks
- Convolutional neural networks
- Generative neural networks
- LSTM / GRU and other recurrent models
- Reinforcement Learning
- Data Acquisition methods
- Model deployment
- Hardware acceleration for machine learning
- Performance assessment
- Visualization

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Important Dates

Submission of full papers (4-6 pages)
February 1, 2019

Notification of acceptance
March 15, 2019

Camera-ready due
April 15, 2019

Early Author registration
April 15, 2019

Pre-conference Activities
June 11, 2019

Conference dates
June 12-14, 2019

Social Activities
June 15, 2019

Conference Language, Review Process and Publications

The official language of the Conference is English. The articles and extended abstracts (demos) will be under double blind peer review process. Accepted papers and demos will be published in electronic format and will be submitted for acceptance into the IEEE Xplore® paper database. IEEE Xplore® will index accepted papers and demos meeting IEEE requirements of content and format. A number of selected, high-quality, papers will be invited for publication in international journals.

Submission

Articles (full papers with 4-6 pages) submitted to exp.at'19 will follow the EasyChair platform.

exp.at'19 General Chairs

Alberto Cardoso
University of Coimbra, PT

Maria Teresa Restivo
University of Porto, PT

MLAiE''19 Special Track Chairs

Andreas Pester
Carinthia University of Applied Sciences, AT

James Wolfer
Indiana University South Bend, USA

Jan Steinbrener
CTR Carinthian Tech Research AG, AT

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